

complete, are apparently usually cleistogamous. In the eight sheets examined in the National Herbarium, all collected in Emmet County, Iowa, by R. I. Cratty, very few flowers with fully developed corolla and stamens have been found.

In the purple-flowered group all gradations exist between the nearly or quite apetalous flowers, with stamens greatly reduced or perhaps sometimes entirely wanting, and the petaliferous flowers. The presence of cleistogamous flowers in all four species of the *L. hirta* group, and their extreme development in *L. leptostachya*, make it necessary to abandon this character in the future in distinguishing our two groups of species.

BUREAU OF PLANT INDUSTRY,
Washington, D. C.

REPORTS ON THE FLORA OF THE BOSTON
DISTRICT,—XLIII.

COMPOSITAE.

ACANTHOSPERMUM.

A. AUSTRALE (Loefl.) Ktze. See RHODORA ix. 26, 1907. Cabbage field, from woolwaste, Lawrence (*Mrs. E. S. Schneider*, no date); S. Boston flats (*C. E. Perkins*, (?) Sept. 25, 1881).

ACHILLAEA.

A. LANULOSA Nutt. Dry sandy soil, rare; Newbury, Manchester, Revere, Malden, Wellesley, Readville.

A. MILLEFOLIUM L. Dry fields and roadsides, very common throughout.

A. PTARMICA L. Moist soil, spontaneous in gardens and escaped; Danvers, Lynn, Salem, Jamaica Plain.

A. TOMENTOSA L. Woolwaste, Westford (*Miss E. F. Fletcher*, 1884 et seq.). Specimen in herb. Gray. See RHODORA x. 127, 1908.

AGERATUM.

A. HOUSTONIANUM Mill. (*A. mexicanum* Sims.) Lynn (*E. & C. E. Faxon*, Sept. 23, 1880). Specimen in herb. Gray. Native of Mexico.

AMBROSIA.

A. APTERA DC. Huntington Ave., Boston (*Wm. Boott*, Sept. 12, 1879; *C. E. Perkins*, Sept. 20, 1880); waste land, S. Boston (*C. E. Faxon*, Sept. 30, 1878; *H. A. Young*, Sept. 25, 1879); Sharon (*S. F. Poole*, September, 1900). Range from Texas to Arizona and adjacent Mexico.

A. ARTEMISIIFOLIA L. Dry fields and roadsides, too common throughout.

A. TRIFIDA L. Waste places, occasional from Milton and Boston west and north.

A. TRIFIDA L., var. *INTEGRIFOLIA* (Muhl.) T. & G. Sidewalk, Brewster Place, Cambridge (*W. Deane*, Aug. 17, 1888); grassland, Sherborn (*Miss M. L. Loomis*, Aug. 9, 1911).

ANAPHALIS.

A. margaritacea (L.) B. & H. Dry upland, frequent throughout

ANTENNARIA.

A. canadensis Greene. Dry fields and hillsides, common.

A. fallax Greene. Dry open places, common throughout.

A. neglecta Greene. Fields, common throughout.

A. neodioica Greene. Dry fields and open woods, common throughout.

A. neodioica Greene, var. *grandis* Fernald. Off Clark Road, Brookline (*F. F. Forbes*, May 25, June 6, 1904). Specimens in herb. Gray.

A. occidentalis Greene. Sterile field, Hamilton (*F. T. Hubbard*, June 14, 1913); clay roadside, Wakefield (*R. C. Bean*, June 3, 1916 et al. to date); dry field, Halifax (*A. S. Pease*, May 30, 1907); dry soil, Sherborn (*Miss M. L. Loomis*, May 19, 1911).

A. Parlinii Fernald. Dry open woods and fields; frequent from Boston north and west.

A. petaloidea Fernald. Dry hillside, Lexington (*M. L. Fernald*, May 11, 1913); N. Easton (*A. A. Eaton*, May 21, 1903).

A. plantaginifolia (L.) Richards. Dry soil, common throughout.

A. plantaginifolia (L.) Richards., var. *petiolata* (Fernald) Heller. Nine stations north and west of Boston. See *Muhlenbergia* i. 5. 1900.

ANTHEMIS.

A. ARVENSIS L. Waste places, occasional.

A. ARVENSIS L., var. AGRESTIS (Wallr.) DC. Waste places, occasional.

A. COTULA L. Roadsides and waste places, common.

A. TINCTORIA L. Roadside thicket, Rockport (*M. L. Fernald, F. W. Hunnewell & B. Long*, Sept. 11, 1913); Magnolia [Gloucester-Manchester] (*Miss Cora H. Clark*, July 4, 1906).

ARCTIUM.

See Fernald & Wiegand, in RHODORA xii. 43-47, 1910.

A. LAPPA L. Waste land, occasional, especially near Boston.

A. MINUS (Hill) Bernh. Waste land, very common.

A. NEMOROSUM Lejeune. Waste land, rare; Gloucester, Brighton, Cambridge, Boston, Sherborn.

A. TOMENTOSUM Mill. Vacant lot, Cambridge, now eradicated (*W. Deane et al.*, July 16, 1885 to 1910); field where rubbish had been dumped, Westford (*Miss E. F. Fletcher*, July 12, 21, 1909).

ARTEMISIA.

A. ABSINTHIUM L. Escaped from gardens, occasional.

A. BIENNIS Willd. Waste land, very abundant in and about Boston, rare elsewhere.

A. ANNUA L. Salem (*E. S. Rogers*, September, 1876); near woolen mill, Medford (*F. W. Grigg*, Oct. 13, 22, 1919).

A. caudata Michx. Seashore and sandy fields along the coast from Salisbury to Duxbury.

A. LUDOVICIANA Nutt. Waste land, introduced and thriving, Newbury (*E. F. Williams*, Aug. 7, 1899). Specimens in herb. Gray and N. E. Botanical Club.

A. PONTICA L. Escaped to roadsides and waste places, rare; Newbury, Tewksbury, Medford. Native of Caucasus region, and Soongaria in central Asia.

A. STELLERIANA Bess. Sandy sea-beaches from Ipswich to Duxbury; also garden escape at Tewksbury (*C. W. Swan*, July 10, 1883).

A. VULGARIS L. Waste places, common.

C. H. KNOWLTON } *Committee on*
WALTER DEANE } *Local Flora.*